



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,900	06/27/2003	Yoshihiro Hamakawa	HAMA3002D/BEU 5027	
23364 BACON & TH	7590 06/19/2007 OMAS PLIC		EXAM	INER
625 SLATERS LANE			RAO, G NAGESH	
FOURTH FLOOR ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	•	_	1722	
			MAIL DATE	DELIVERY MODE
			06/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/606,900	HAMAKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	G. Nagesh Rao	1722			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
	Responsive to communication(s) filed on <u>27 March 2007</u> .				
· · · · · · · · · · · · · · · · · · ·	,				
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 51-78 is/are pending in the application 4a) Of the above claim(s) 51-70,73 and 75-78 5) Claim(s) is/are allowed. 6) Claim(s) 71,72 and 74 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	is/are withdrawn from considerati	on.			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 27 June 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date					

Election/Restrictions

Page 2

1) Applicant's election without traverse of claims 71-74 in the reply filed on 3/27/07 is acknowledged.

Claims 51-70 and 75-78 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 3/27/07.

Examiner further acknowledges applicant's election of species Group I as denoted generic via claim 72 and therefore claims 71-72, and 74 will be examined. Therefore in the reply filed on 3/27/07, election species Group II claim 73 is withdrawn without traverse in the interim for consideration.

Priority

2) Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 11/24/2000 and 03/30/2001. It is noted, however, that applicant has not filed a certified copy of the foreign priority patent application as required by 35 U.S.C. 119(b).

112:

Claim Objections

Page 3

Claim 72 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 72 is multiply dependent on claims 69 or 71, having set forth claim 69 is withdrawn via election by applicant for consideration, claim 72 is requested to be corrected by applicant.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4) Claim 71 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 71 refers to the crystallizing step whereby the "heating liquid or solid particles existing in a vapor phase by crystallizing means...". Examiner is a bit unclear whether the particles exist in vapor phase prior or after the

Application/Control Number: 10/606,900

Art Unit: 1722

solid/liquid stage, or go into vapor phase as a result of the crystallizing means, or the particles are in vapor phase as solid or liquid which is scientifically impossible. Applicant is advised to clarify the scope of this claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5) Claims 71-74 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakata (WO 99/22048).

Examiner would like to point that the rejection being made is utilizing Nakata (US Patent No. 6,153,007) as an English equivalence to Nakata (WO 99/22048).

Nakata 007 teaches a spherical semiconductor particles massproducing method that includes a crystallizing step for heating liquid or solid particles that may exist prior in raw form as a vapor phase whereby crystallizing means being that of a laser source thereby converts the particles

Page 5

Art Unit: 1722

into single-crystal or polycrystalline spherical particles and whereby the laser source heats the particles such that it is capable of allowing for a cooling rate of the particles to have a gentle profile, to thereby prevent development of cracks in the particles and prevent the particles from becoming amorphous (See Abstract, Cols 1-15 Lines 1-68, Figs 1-6, in specific Figs 1 and 4, and Cols 1 Lines 15-26, Col 2 Lines 28-68, Col 3 Lines 32-60, Col 6-7 Lines 1-68).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571)272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1722

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GNR

DUANE SMITH PRIMARY EXAMINER